		~			£	
56 GGG	110 AAG	164 ACT	218 GTT	272 GCA	326 GGC	380 CTG L
	TGG	CTG	CAT	TGC	TGA	ATA CGA I R
GAG GTG	CAG	CCA	CTT	GGT	ACC	ATA I
47 CTG	101 GTA	155 GTG	209 GTG	263 TTA	317 GGG	371 CAG Q
CGA GCC	ATG	GCT	CAA	TTG	CGT	CTG L
CGA	CIC	CTG	TCC	TGA	CAC	CGG R
38 TCC	92 TAT	146 GTC	200 ATT	254 AGG	308 ACC	362 CAC H
CTT	ATA	CTG	GAC	AAG	999	GCA
CGC	CAA	GTT	GAA	GGA	CCT	ATG M
29 CTT	83 ATC	137 TGG	191 TGT	245 CCT	299 TCC	353 TCC
CCT GGA	AAA	GTT	ŢĠĊ	AGG	GCT	TCC
-	m LLL	GAA	TTG	ACA	TCA	225
20 GCT	74 ATT	128 CTG	182 ATC	236 CCC	290 AGC	344 TTG
990	CCA	AGT	999	TGA	TCC	GAC
GTC	TCA	GAG	CTT	ATC	TTA	GTG
11 CAG	65 GGT	119 CCA	173 GAC	227 CAA	281 GTC	335 GGG
CTG CGT	AGA AAA	TGG	TGT	CAG	GTG	AGA ACT
CTG	AGA	AAC	CAC	AGC	GAG	AGA
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FIGURE 1A

434 GAG E	488 CTG L	542 TAC Y	596 CAG Q	650 GAA E	704 GCT A	758 TCC S
999 9	GCC	AAC	CTG L	GCT	999 9	ATC I
TTA L	TCA	CCC	GTC	ATC	GAT D	GTG V
425 CCC P	479 CCC P	533 TTC F	587 GTG V	641 CCC P	695 TTG L	749 GCA A
CAC H	GAG E	AGC	GAT D	GCC	GTG V	CTG L
CGC R	GTG V	CAC H	CTG L	GTA V	CAG Q	AGA R
416 CTC L	470 GAG E	524 AGC S	578 TGG W	632 GCT A	686 TGG W	740 CTG L
AGG R	CTG	CAG Q	TGG W	CAG Q	ACC	GGT G
CTC	999 9	GCT A	CAG Q	GCT A	TGC C	CGG R
407 CTG L	461 CAT H	515 AGG R	569 CGC R	623 GAT D	677 CCC P	731 ACA T
ACG T					CAC H	
GAC D	CGG R	GCA A	ACC T	GTC V	AGC	TGC
398 AAG K	452 GCC A	506 CAG Q	560 CTA L	614 GGT G	668 TTC F	722 GAG E
GTG V	AAG K	AGG R	9 9	GCG A	GAC D	AGG R
GAT D	ACC	TTC	CAC H	CTG	AAA K	CTG L
389 TGG W	443 GCC A	497 GGC G	551 AGC S	605 CAC H	659 TAT Y	713 ACC T
ACG	TAT Y	CAA Q	CTG L	TTC	CTT L	GAC D
CTG L	GCC A	GAA E	9 9	ACC	CAG Q	GAG

FIGURE 1B

812 CAC H	866 CGC R	920 CAT H	974 CAC H	1028 GAT TCT GTA D S V	1082 TGC C	1136 CCT
GAA E	CCC	GCC	ATG M	TCT S	GAC D	GGC
CGT GAA R E	GAC D	GCA GCC A A	3 9 9	GAT D	CTT L	
803 CTG (L	857 CCG P	911 GTG V	938 947 956 965 FAC CTC TGC GAT TAC CAG GGG CCT CGG GCT GTG GGC Y L C D Y Q G P R A V G	1019 AGG R	L073 GCC A	127 TGG
CTT GGC L G	AAG K	GTA V	GCT	GTC V	CCT P	1 AAG
CTT	CCC	CCA P	CGG R	GTG V	CTG	555
794 GGC G	848 TGG W	902 GAA E	956 CCT P	1010 CCC P	1064 CTC L	1118 TGA
	0 0 0	ATG M	999 9	GAC D	CAT H	CAG
CTG L	GCT	CAT H	CAG Q	CTG L	GCC	299
785 ATC CTG I L	839 GCT A	893 GCT A	947 TAC Y	1001 GCA A	1055 CTG L	1109 TGA
0 0	GAG	CIT	GAT D	CAG Q	TCT	CIT
GAG E	TCC	CGG R	TGC	CCA P	CCC	999 9
776 CTA L	830 ACC T	884 TTG L	938 CTC L	992 GGC G	1046 CTC L	1100 CCA P
•	– –	<u> </u>		9 G GTT G V G		1100 ACT CCA T P
CGA R	GTG V	GA E	A A	GTG V	CAC H	TCA
767 GAC D	821 TTT F	875 CAG Q	929 GAT D	983 CTG L	1037 GAA E	1091 GGC G
TTT F	GAC	TTC		TTC	AAA K	GAG E
AAC N	TTC	ATT I	929 GTT GGG GAT V G D	AGC	CCT	CTA L

FIGURE 1C

1190 CTT CTT TCT	1244 .C TGT GAT	1289 TAA AAA AAA 3'
- 5 - 5	5 TAC 1	9 AA
1181 GAG CCC	1235 GTC ACC	
AGG	TTT	CAC
1172 GA GAC A	1226 GCC	1280 ; CCC CAC
9	වරව	TTC
CCT	CCT	CCC
163 AAC	1217 ' CTC	1271 CTC TCA (
1154 1163 AAA CCT TAA ACA AAC	CCI	CTC
TAA	သသ	GAG
154 CCT	208 TTT	1262 ' GCT
AAA	1208 ACC TTT	AGT
AGA	TGG	GTG .
1145 TGG	1199	
1145 CCA TGG	1 CAG	1 AAA
AGG (1199 CCA CAG CTC	1253 AAT AAA GCA

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55 ATG M	109 GCC A	163 TCA S	217 GTG V	271 GTC V	325 AAG K	379 ACA T
GCA	999 9	AGT	CGG R	GCT	GAA E	CCA P
SCG	CCA P	CGC	ATC	ATG M	CAA Q	CGG R
46 GTT	100 CGC R	154 TYT F	208 ATA I	262 CAG Q	316 GAT D	370 GTC V
TTA	CTG L	AGA R	CGA R	999 9	TGG W	AGG R
TTT	CGG R	GTC V	GAT D	GCC	ATG M	TTC
37 CTT	91 TGG W	145 AGT S	199 GTG V	253 TAT Y	307 AAA K	361 ATG M
3 TTG	CTT L	ACC	GCT	ATC I	CAG Q	GTT V
55	CGC R	AGA R	GCA A	CGC R	ATT I	ATG M
28 3 AAG	82 CCC P	136 AGA R		244 AAC N		
ACG	GCT	GGA G		GCA A		
TCA	GCG	$_{\rm Y}^{\rm TAT}$	ATC I	GGA G		
19 CGT	73 GCG A	127 GCT A	181 AAT N		289 GTC V	343 TTC F
TTC	GCG A	TCA		GAA E		
CGG	999 9	CTC		9 9	ACC	AAA K
10 GTC	64 GCC A	118 TCC S	172 ACT T	226 GCA A	280 CGG R	334 TTG L
၁၅၁	TGC C	CGG R	ATG M	CAT H	GGT	C CAT
10 CCA CGC GTC	AGT TGC S C	CGG R	GGA	GAT D	CTG	GAC
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FIGURE 2A

PCT/US00/01086

FIGURE 2B

433 GCC A	487 ATA I	541 AAA K	595 CAC H	649 CTG L	703 TTA L	757 GTG
ACC	AGC	GAA E	GAG E	GTC V	AGA R	CAA
999 9	GAG E	CCT P	CTT	GCC	GAA E	TAC
424 GCG A	478 GAA E	532 GAC D	586 GAG E	640 TAT Y	694 TCA S	748 ATT
999 9	GTG V	GAG	GAA E	GCC	TAT TTA Y	GTA
CTG	GCG	GAG E	GAT D	CCA P	TAT Y	ATA
415 GCA A	469 GTG V	523 ATG M	577 CGG R	631 GCT A	685 ATA I	739 ATG
TTT F	ACC T	CTG L	TTT F	${ m TTG}$	GCG	AAG
9 9 9	TGC C	ACG	AAA K	GAA E	GTG	TAA
406 CTG L	460 GCC A	514 AGG R	568 AAG K	622 GCA A	676 AGA R	730 CTA
GTG V	ATG	ATC I	ATA I	GAT D		C TGT (
AAC N	GCC	CAG Q	CTG L	CAT H	GGA	ညည
397 TGG W	451 GGT G	505 AAC N	559 CAG Q	613 GAC D	667 GCC A	721 TTT
TTG L	GAA E	AAC N				AGT
CCC	AAG K	TAC Y	CTT L	3 3 9	ATC	TCC
388 ATG M	442 GGG G	496 CAC H	550 GAA E	604 ATA I	658 ATT I	712 GTG
GTT CTG V L	CTC	CAT H	GAG E	GAC D	AGC	AGT
GTT V	TTG L	GCA	TAC Y	CAT (H	AAG AGC K S	712 TAA AGT GTG

811 GAA	865 TTG	919 TGT
TGT	GTG	CCT
CAA	GCA	CAG
802 GTA	856 TCT	910 CAC
m TTT	AAC	GGT
ACT	TTA	ACA
793 TGT	847 TTT	901 CCA
CGT	TTT	AGA
TAT	TTT	ATG
784 AGT	838 GTT	892 GCC
TAC	TTT	TCT
GTG	AGG	TTT
775 CAG	829 ATA	883 GTT
AAA	ATT	GTT
GAG	TAA A	TGG
766 GCA	820 TAA	874 CTC
766 ACA TTT GCA GAG	rt tgt	ATT TTT
ACA	TTT	ATT

'IGURE 2C

928 TCA AGT TAC AGC AAA CGA AGC TGG G 3'

67905	4150	1581473	g1561732	2267905	g3415017	1581473	g1561732	2267905	g3415017	1581473	g1561732	2267905	g3415017	1581473	g1561732	1	2267905	g3415017	1581473	g1561732
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FIGURE 3A

2267905 g3415017 1581473 g1561732	2267905 g3415017 1581473 g1561732	2267905 g3415017 1581473 g1561732	2267905 g3415017 1581473 g1561732
L W N V L G F A L G A G T A L L G K E G A M A 226/905 L W N V A G F A L G A G T A L L G K E G A M A 93415017 G L G L R E H F D F V L T S E A A G W P K P D P R I 1581473 N T K L D Q Y L D F A I N S Y E V Q A E K P D P Q I 91561732	VEESIAHHYNNQIRTLMEEDPE-KY-226 VEESIANHYNNQIRMLMEEDPE-KY-934 LRLAHMEPVVAAHVGDNYLCDYQ158 MEKSGLKNLKPEECLHIGDGPTTDYL915	EELLQLIKKFRDEELEHHDTGLD 226 EELLQVIKQFRDEELEHHDTGLD 934 VGMHSFLVVGPQALDPVVR DSVP 158 LGWHSALVHE-KSYAYLVKKYGEDID 915	AELAPAYAVLKSIIQAGCRVAIYLSERL 226 AELAPAYALLKRIIQAGCSAAIYLSERF 934 HILPSLAHLLPAL DCLEGS TPGL 158 HVFPSLYDFHKK ISDG - AVVW 915
L L K K K L L L K K K K K K K K K K K K	C T V A F Q E A A F Q K A		DAE DAE EHI DHV
110 V L M P 110 V L M P 143 G I L G 150 T L L Q	137 C 137 C 1173 F 0	165 - 165 - 200 G 1 210 A 2	188 H D 188 H D 227 K E 239 R D

FIGURE 3B